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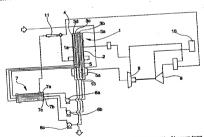
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lates in succession, and which is combined with a heat exchanger (7) of known type, which is arranged externally of the evaporator (1) and which is divided into a plurality of sectors (7a, 7b and 7c) in each of which the tomato juice is circulated and heated as it (1) and which is divided into a plurality of sectors (7a, 1b and 1c) in each of which is divided into a plurality of sectors (7a, 1b and 1c) in each of which is divided into a sector of tubes (3a, 3b, 3c) of the evaporator before being introduced into a successive sector. The plant also comprises with form a sector of tubes (3a, 3b, 3c) of the evaporator before being introduced into a successive sector. The plant also comprises with form a sector of tubes (3a, 3b, 3c) of the evaporator (1b, 3c) of the evaporator (1c) and the eva O compresses it and reintroduces it into the central part (1 a) of the evaporator. The compressor is powered by a gas surbine (9) of known type and in turn powered by live steam coming from a boiler (10). Steam discharging from the gas turbine (9) constitutes the heating fluid necessary for operating the plant.